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<110> Cambridge Antibody Technology Limited
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<120> Human Antibody Molecules for IL-13

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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe
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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ile Asp Ala Gly
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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
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Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
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35 40 45

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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
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Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

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Ile Tyr Asp Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
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Val Ser Ser Ile Ser Ala Ser Gly Asp Ser Thr Phe Tyr Ala Asp Ser
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Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Asn Lys Asn Met Val
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 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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 20 25 30

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val
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Ile Tyr Asp Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
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 35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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 20 25 30

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 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
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 35 40 45

Gly Trp Ile Ser Gly Leu Asn Gly Glu Thr Leu Tyr Gly Gln Glu Phe
 50 55 60

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 65 70 75 80

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 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
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Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Ala Thr Pro Asp Gly Gln Thr Ser Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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 20 25 30

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 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

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Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe
 50 55 60

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 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser
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 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

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Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Ser Gly Ser Asn Gly Tyr Thr Ser Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

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 100 105 110

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 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Asn Asp Ala Thr Gly Asp Thr Gln Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp
 100 105 110

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 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

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Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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 35 40 45

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 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

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 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser
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 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

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Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Asp Asp Asp Ser Gly Thr Thr Ile Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
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Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp
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Gly Arg Gly Thr Leu Val Thr Val Ser Ser
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 Page 26

35

40

45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Asn Thr
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Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser
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 20 25 30

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 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
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Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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Ser Tyr Ala Met Ser
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Gln Thr Gly Val Ser
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Asp Thr Gly val Ser
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$\langle 210 \rangle$ 111

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SeqListing.TXT

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SeqListing.TXT

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SeqListing.TXT

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SeqListing.TXT

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caggccccctg tgctggatcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtgg gatactggta gtgatcccgt ggtattcggc	300
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cctggacaag ggctagagtg gatgggatgg atccgcaaca tcgacggcta cacaatttat	180
ggacaggaat tccagggcag agtcaccatg accacagata catccacgag cacagcctac	240
atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
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<210> 128

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SeqListing.TXT

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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
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<400> 129

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ggacaggaat tccagggcag agtcaccatg accacagata catccacgag cacagcctac	240
atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180

SeqListing.TXT

ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtg gatactggta gtgatcccgt ggtattcggc	300
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cctggacaag ggcttgagtg gatgggatgg atcagcgcta ataatggcga cacaaattat	180
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atggagttga ggagcctgag atctgacgac acggccggtt attactgtgc gagagactcc	300
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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtg gatactggta gtgatcccgt ggtattcggc	300
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<210> 133

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Glu Thr Pro Thr Asn Thr Ala His
 65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Arg Asp Ser Ser Ser Asn Trp Ala Arg Trp Tyr Phe Asp Leu Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 134

<211> 109

<212> PRT

<213> Homo sapiens

<400> 134

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
 1 5 10 15

Thr Ala Arg Ile Pro Cys Gly Gly Asn Asn Ile Gly Ser Lys Leu Val
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr
 35 40 45

SeqListing.TXT

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ile Asp Ala Gly
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 100 105

<210> 135

<211> 5

<212> PRT

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<400> 135

Asn Tyr Gly Leu Ser
 1 5

<210> 136

<211> 17

<212> PRT

<213> Homo sapiens

<400> 136

Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe Gln
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Gly

<210> 137

<211> 13

<212> PRT

<213> Homo sapiens

<400> 137

SeqListing.TXT

Asp Ser Ser Ser Asn Trp Ala Arg Trp Tyr Phe Asp Leu
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<210> 138

<211> 11

<212> PRT

<213> Homo sapiens

<400> 138

Gly Gly Asn Asn Ile Gly Ser Lys Leu Val His
1 5 10

<210> 139

<211> 7

<212> PRT

<213> Homo sapiens

<400> 139

Asp Asp Gly Asp Arg Pro Ser
1 5

<210> 140

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<212> PRT

<213> Homo sapiens

<400> 140

Gln Val Trp Asp Thr Gly Ser Asp Pro Val Val
1 5 10

<210> 141

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SeqListing.TXT

<400> 141

Ser Tyr Ala Met Ser
1 5

<210> 142

<211> 17

<212> PRT

<213> Homo sapiens

<400> 142

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 143

<211> 11

<212> PRT

<213> Homo sapiens

<400> 143

Val Gly Ala Ala Gly Glu Gly Tyr Tyr Gly Tyr
1 5 10

<210> 144

<211> 13

<212> PRT

<213> Homo sapiens

<400> 144

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Glu
1 5 10

<210> 145

<211> 7

<212> PRT

SeqListing.TXT

<213> Homo sapiens

<400> 145

Asp Asp Asn Gln Arg Pro Ser
1 5

<210> 146

<211> 9

<212> PRT

<213> Homo sapiens

<400> 146

Gln Ser Tyr Asp Ser Asn Asn Asp Val
1 5

<210> 147

<211> 5

<212> PRT

<213> Homo sapiens

<400> 147

Ser Tyr Ala Met Ser
1 5

<210> 148

<211> 17

<212> PRT

<213> Homo sapiens

<400> 148

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

SeqListing.TXT

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<211> 13

<212> PRT

<213> Homo sapiens

<400> 149

Val Gly Arg Ala Thr Thr Asp Glu Gly Tyr Tyr Gly Tyr
1 5 10

<210> 150

<211> 13

<212> PRT

<213> Homo sapiens

<400> 150

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln
1 5 10

<210> 151

<211> 7

<212> PRT

<213> Homo sapiens

<400> 151

Asp Asp Asn Gln Arg Pro Ser
1 5

<210> 152

<211> 9

<212> PRT

<213> Homo sapiens

<400> 152

Gln Ser Tyr Asp Ser Asn Asn Asp Val
1 5

SeqListing.TXT

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<211> 5

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<213> Homo sapiens

<400> 153

Ser Tyr Ala Met Ser
1 5

<210> 154

<211> 17

<212> PRT

<213> Homo sapiens

<400> 154

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 155

<211> 11

<212> PRT

<213> Homo sapiens

<400> 155

Val Gly Lys Ala Thr Thr Glu Glu Gly Tyr Tyr
1 5 10

<210> 156

<211> 13

<212> PRT

<213> Homo sapiens

SeqListing.TXT

<400> 156

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln
1 5 10

<210> 157

<211> 7

<212> PRT

<213> Homo sapiens

<400> 157

Asp Asp Asn Gln Arg Pro Ser
1 5

<210> 158

<211> 9

<212> PRT

<213> Homo sapiens

<400> 158

Gln Ser Tyr Asp Ser Asn Asn Asp Val
1 5

<210> 159

<211> 15

<212> DNA

<213> Homo sapiens

<400> 159

aattatgggc tcagc

15

<210> 160

<211> 51

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<213> Homo sapiens

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51

<210> 161

<211> 39

<212> DNA

<213> Homo sapiens

<400> 161

gactccagca gcaactgggc ccgctgggtt ttcgatctc

39

<210> 162

<211> 33

<212> DNA

<213> Homo sapiens

<400> 162

gggggaaaca acattggaag taaacttgta cac

33

<210> 163

<211> 21

<212> DNA

<213> Homo sapiens

<400> 163

gatgatggcg accggccctc a

21

<210> 164

<211> 33

<212> DNA

<213> Homo sapiens

<400> 164

cagggtg999 atactggtag tgatcccgtg gta

33

<210> 165

<211> 15

SeqListing.TXT

<212> DNA

<213> Homo sapiens

<400> 165

aattatgggtc tcagc

15

<210> 166

<211> 51

<212> DNA

<213> Homo sapiens

<400> 166

tggatcagcg ctaataatgg cgacacaaat tatggacagg aattccaggg c

51

<210> 167

<211> 39

<212> DNA

<213> Homo sapiens

<400> 167

gactccagca gcagctgggc ccgctggttt ttcgatctc

39

<210> 168

<211> 33

<212> DNA

<213> Homo sapiens

<400> 168

gggggaaaca tcattggaag taaacttgta cac

33

<210> 169

<211> 21

<212> DNA

<213> Homo sapiens

<400> 169

SeqListing.TXT

gatgatggcg accggccctc a

21

<210> 170

<211> 33

<212> DNA

<213> Homo sapiens

<400> 170

caggtgtggg atactggtag tgatcccggtg gta

33

<210> 171

<211> 327

<212> PRT

<213> Homo sapiens

<400> 171

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

SeqListing.TXT

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
 325

<210> 172

<211> 105

<212> PRT

<213> Homo sapiens

<400> 172

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
 Page 63

SeqListing.TXT

1 5 10 15
 Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
 20 25 30
 Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
 35 40 45
 Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
 50 55 60
 Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
 65 70 75 80
 His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
 85 90 95
 Lys Thr Val Ala Pro Thr Glu Cys Ser
 100 105

<210> 173

<211> 132

<212> PRT

<213> Homo sapiens

<400> 173

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly
 1 5 10 15
 Phe Ala Ser Pro Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu
 20 25 30
 Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys
 35 40 45
 Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys
 50 55 60
 Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu
 65 70 75 80
 Lys Thr Gln Arg Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala
 85 90 95

SeqListing.TXT

Gly Gln Phe Ser Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala
 100 105 110

Gln Phe Val Lys Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu
 115 120 125

Gly Arg Phe Asn
 130

<210> 174

<211> 132

<212> PRT

<213> Macaca fascicularis

<400> 174

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly
 1 5 10 15

Phe Ala Ser Pro Ser Pro Val Pro Pro Ser Thr Ala Leu Lys Glu Leu
 20 25 30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys
 35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Val Tyr Cys
 50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu
 65 70 75 80

Lys Thr Gln Arg Met Leu Asn Gly Phe Cys Pro His Lys Val Ser Ala
 85 90 95

Gly Gln Phe Ser Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala
 100 105 110

Gln Phe Val Lys Asp Leu Leu Val His Leu Lys Lys Leu Phe Arg Glu
 115 120 125

Gly Gln Phe Asn
 130

<210> 175

<211> 131

SeqListing.TXT

<212> PRT

<213> Mus sp.

<400> 175

Met Ala Leu Trp Val Thr Ala Val Leu Ala Leu Ala Cys Leu Gly Gly
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Leu Ala Ala Pro Gly Pro Val Pro Arg Ser Val Ser Leu Pro Leu Thr
20 25 30

Leu Lys Glu Leu Ile Glu Glu Leu Ser Asn Ile Thr Gln Asp Gln Thr
35 40 45

Pro Leu Cys Asn Gly Ser Met Val Trp Ser Val Asp Leu Ala Ala Gly
50 55 60

Gly Phe Cys Val Ala Leu Asp Ser Leu Thr Asn Ile Ser Asn Cys Asn
65 70 75 80

Ala Ile Tyr Arg Thr Gln Arg Ile Leu His Gly Leu Cys Asn Arg Lys
85 90 95

Ala Pro Thr Thr Val Ser Ser Leu Pro Asp Thr Lys Ile Glu Val Ala
100 105 110

His Phe Ile Thr Lys Leu Leu Ser Tyr Thr Lys Gln Leu Phe Arg His
115 120 125

Gly Pro Phe
130

<210> 176

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> HCDR1 formula

<220>

<221> MISC_FEATURE

SeqListing.TXT

<222> (1)..(1)

<223> Xaa = Asn, Gln, Asp, Leu, Gly or Glu

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = Tyr or Thr

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa = Val, Ile, Phe or Leu

<400> 176

Xaa Xaa Gly Xaa Ser
1 5

<210> 177

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> HCDR2 formula

<220>

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<222> (3)..(3)

<223> Xaa = Ser, Asp, Asn, Ala, Arg, Gly or Glu

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa = Ala, Asp, Gly, Thr, Pro, Asn or Tyr
Page 67

SeqListing.TXT

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = Asn, Asp, Leu, Ala, Pro, Thr, Ser, Ile or Arg

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa = Asn, Ser, Thr, Asp, Gly, Lys or Ile

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = Asp, Thr, Glu, Gln, Leu, Tyr, Asn, Val, Ala, Met or Gly

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = Asn, Ile, Leu, Gln, Ser, Met, His, Asp or Lys

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = Gly or Arg

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<222> (13)..(13)

<223> Xaa = Gln or Arg

SeqListing.TXT

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<222> (14)..(14)

<223> Xaa = Glu, Lys or Gly

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa = Gln or Arg

<220>

<221> MISC_FEATURE

<222> (17)..(17)

<223> Xaa = Gly or Lys

<400> 177

Trp Ile Xaa Xaa Xaa Xaa Gly Xaa Thr Xaa Tyr Xaa Xaa Xaa Phe Xaa
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Xaa

<210> 178

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> HCDR3 formula

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<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = Ser, Arg or Asp

SeqListing.TXT

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa = Ser, Asn, Asp, Thr or Pro

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa = Ser or Arg

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = Ser, Asn, Ala, Ile, Arg, Pro or Lys

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = Phe or Tyr

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = Asp or Tyr

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Asp Xaa Xaa Xaa Xaa Trp Ala Arg Trp Xaa Phe Xaa Leu
1 5 10

<210> 179

<211> 11

<212> PRT

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<223> LCDR1 formula

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<222> (3)..(3)

<223> Xaa = Asn, Asp or Ser

<220>

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<223> Xaa = Asn, Ile, Leu, Met, Cys, Val, Lys, Tyr, Phe, Arg, Thr, Ser, Ala, His or Gly

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = Ile or Val

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa = Ser or Gly

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = Lys or Arg

<400> 179

Gly Gly Xaa Xaa Xaa Gly Xaa Xaa Leu Val His
1 5 10

SeqListing.TXT

<210> 180

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> LCDR2 formula

<220>

<221> MISC_FEATURE

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<223> Xaa = Ser or Thr

<400> 180

Asp Asp Gly Asp Arg Pro Xaa
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<210> 181

<211> 11

<212> PRT

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<222> (8)..(8)

<223> Xaa = Asp or Asn

<220>

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<222> (11)..(11)

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SeqListing.TXT

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<210> 182

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Leu Thr Gly Val Ser
1 5

<210> 183

<211> 5

<212> PRT

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<400> 183

Gly Thr Gly Val Ser
1 5

<210> 184

<211> 5

<212> PRT

<213> Homo sapiens

<400> 184

Glu Thr Gly Ile Ser
1 5

<210> 185

<211> 5

<212> PRT

SeqListing.TXT

<213> Homo sapiens

<400> 185

Asp Thr Gly Ile Ser
1 5

<210> 186

<211> 5

<212> PRT

<213> Homo sapiens

<400> 186

Gly Thr Gly Ile Ser
1 5

<210> 187

<211> 5

<212> PRT

<213> Homo sapiens

<400> 187

Asn Tyr Gly Phe Ser
1 5

<210> 188

<211> 17

<212> PRT

<213> Homo sapiens

<400> 188

Trp Ile Arg Pro Thr Asp Gly Leu Thr Met Tyr Gly Gln Glu Phe Gln
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Gly

<210> 189

SeqListing.TXT

<211> 17

<212> PRT

<213> Homo sapiens

<400> 189

Trp Ile Asp Asp Arg Thr Gly Thr Thr Gln Tyr Gly Gln Glu Phe Gln
1 5 10 15

Gly

<210> 190

<211> 17

<212> PRT

<213> Homo sapiens

<400> 190

Trp Ile Arg Ala Ser Asp Gly Gln Thr Ile Tyr Gly Gln Glu Phe Gln
1 5 10 15

Gly

<210> 191

<211> 17

<212> PRT

<213> Homo sapiens

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Gly

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Gly

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<211> 17

<212> PRT

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Gly

<210> 194

<211> 17

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<213> Homo sapiens

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Gly

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Gly

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<212> PRT

<213> Homo sapiens

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Gly

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SeqListing.TXT

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Lys

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<211> 13

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<210> 216

<211> 13

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Asp Ser Thr Ser Ala Trp Ala Arg Trp Phe Phe Asp Leu
1 5 10

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<211> 13

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<213> Homo sapiens

<400> 217

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SeqListing.TXT

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1 5 10

<210> 229

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<213> Homo sapiens

<400> 229

Gly Gly Asn Lys Ile Gly Ser Lys Leu Val His
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1 5
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<400> 247

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<211> 132

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<223> Consensus between human IL-3 and Cynomolgus IL-3

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<223> Xaa = Any amino acid

SeqListing.TXT

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Phe Ala Ser Pro Xaa Pro Val Pro Pro Ser Thr Ala Leu Xaa Glu Leu
 20 25 30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys
 35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Xaa Tyr Cys
 50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu
 65 70 75 80

Lys Thr Gln Arg Met Leu Xaa Gly Phe Cys Pro His Lys Val Ser Ala
 85 90 95

Gly Gln Phe Ser Ser Leu Xaa Val Arg Asp Thr Lys Ile Glu Val Ala
 100 105 110

Gln Phe Val Lys Asp Leu Leu Xaa His Leu Lys Lys Leu Phe Arg Glu
 115 120 125

Gly Xaa Phe Asn
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<211> 136

<212> PRT

<213> Artificial sequence

<220>

<223> Consensus between human IL-3 and murine IL-3

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<223> Xaa = Any amino acid

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<223> Xaa = Any amino acid

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<223> Xaa = Any amino acid

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Leu Xaa Glu Leu Ile Glu Glu Leu Xaa Asn Ile Thr Gln Xaa Gln Xaa
 35 40 45

Xaa Pro Leu Cys Asn Gly Ser Met Val Trp Ser Xaa Xaa Leu Xaa Ala
 50 55 60

Gly Xaa Xaa Cys Xaa Ala Leu Xaa Ser Leu Xaa Asn Xaa Ser Xaa Cys
 65 70 75 80

Xaa Ala Ile Xaa Xaa Thr Gln Arg Xaa Leu Xaa Gly Xaa Cys Xaa Xaa
 85 90 95

Lys Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Leu Xaa Xaa Xaa Asp Thr Lys
 100 105 110

Ile Glu Val Ala Xaa Phe Xaa Xaa Xaa Leu Leu Xaa Xaa Xaa Lys Xaa
 115 120 125

Leu Phe Arg Xaa Gly Xaa Phe Xaa
 130 135

SeqListing.TXT